Author Index of Volume 186

Bakker, A., 129 Bartlett, D. L., 45 Bhadeshia, H. K. D. H., 157

Čermák, J., 171 Chang, Y. H., 177 Chen, C. T., L5 Cheng, S., 15 Chung, Y. W., 121 Clayton, C. R., 163

Davies, H. A., 143

Ehrström, J. C., 55

Fujii, Y., 105

Hermann, R., 45

Ilschner, B., 135 Imazu, J., 105 Irisawa, T., 105

Judelewicz, M., 135

Kawai, T., 105 Kê, T. S., 1 Kim, D., 163 Kim, K. W., 185 Krempl, E., 15, 23 Künzi, H. U., 135

Laird, C., 65, 87 Lee, K. H., 185 Lee, W. J., 121 Li, D. M., 129 Li, Y., 65, 87 Lin, W. K., 177

Mackin, T. J., L5 Majors, P. S., 23 Matsumoto, H., 105 Mecholsky, J. J., L5 Mehrer, H., 171 Merk, N., 135 Miyamoto, Y., 105 Murakami, K., 105 Niihara, K., 105

Okamoto, T., 105 Olofinjana, A., 143 Oversluizen, M., 163

Pineau, A., 55 Przystupa, M. A., 35

Raabe, D., L1 Rollett, A. D., 35 Ruggles, M. B., 15 Runt, J., L5

Schlesinger, M. E., 151 Sohn, H. Y., 151 Suzuki, S., 157

Tang, X., 113 Thompson, A. W., 113

Vasudévan, A. K., 35

Wang, X., 151



Subject Index of Volume 186

Alloys

crystallographic texture gradients in the aluminum 8090 matrix alloy and 8090 particulate composites, 35

cyclic plastic strain energy as a damage criterion and environmental effect in Nb-bearing high strength, low alloy steel, 121

fatigue crack growth and deformation in weldments of aluminium alloys, 45

fracture mode transition in response to processing technique, heat treatment and stress rate for a rapidly solidified Al scrap alloy, 129

hydrogen effects on slip character and ductility in Ni-Co alloys, 113

mechanical properties and microstructure of Al-Fe-X alloys, 55

structures and mechanical properties of rapidly solidified deposits of an Fe\$1.50wt.%C-10.7wt.%Cr alloy by low pressure plasma spraying, 105

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Aluminium

crystallographic texture gradients in the aluminum 8090 matrix alloy and 8090 particulate composites, 35

determination of the kinetics of TiAl formation from fine Ti and Al particles using differential scanning calorimetry, 151

fatigue crack growth and deformation in weldments of aluminium alloys, 45

fracture mode transition in response to processing technique, heat treatment and stress state for a rapidly solidified Al scrap alloy, 129

mechanical properties and microstructure of Al-Fe-X alloys, 55

Austenite

on the question of nitrate formation by N-containing austenitic stainless steels, 163

reversibility of the allotriomorphic ferrite and austenite transformations, 157

Bamboo

mechanism of the bamboo boundary internal friction peak, 1

determination of the static and dynamic mechanical properties of Fe-Cr-Si-B metallic glass wire, 143

Carbon

structures and mechanical properties of rapidly solidified deposits of an Fe-1.50wt.%C-10.7wt.%Cr alloy by low pressure plasma spraying, 105

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Ceramics

effects of humidity and sliding speed on the wear properties of Si₃N₄ ceramics, 185

Chromium

determination of the static and dynamic mechanical properties of Fe-Cr-Si-B metallic glass wire, 143

structures and mechanical properties of rapidly solidified deposits of an Fe-1.50wt.%C-10.7wt.%Cr alloy by low pressure plasma spraying, 105

theisotropic viscoplasticity theory based on overstress applied to the modeling of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 23

the rate-dependent mechanical behavior of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 15

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Cobalt

hydrogen effects on slip character and ductility in Ni-Co alloys, 113

Composites

crystallographic texture gradients in the aluminum 8090 matrix alloy and 8090 particulate composites, 35

Copper

microstructural development during fatigue of copper foils $20-100 \mu m$ thick, 135

Cracking

fatigue crack growth and deformation in weldments of aluminium alloys, 45

Crystals

cyclic response and dislocation structures of AISI 316L stainless steel. Part 1: single crystals fatigued at intermediate strain amplitude, 65

cyclic response and dislocation structures of AISI 316L stainless steel. Part 2: polycrystals fatigued at intermediate strain amplitude, 87

modelling of grain rotations during compression deformation of polycrystalline intermetallic L1₂ compounds, L1

Deformation

fatigue crack growth and deformation in weldments of aluminium alloys, 45

modelling of grain rotations during compression deformation of polycrystalline intermetallic L1₂ compounds, L1

Differential scanning calorimetry

determination of the kinetics of TiAl formation from fine Ti and Al particles using differential scanning calorimetry, 151

Diffusion

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Dislocation

cyclic response and dislocation structures of AISI 316L stainless steel. Part 1: single crystals fatigued at intermediate strain amplitude, 65

cyclic response and dislocation structures of AISI 316L stainless steel. Part 2: polycrystals fatigued at intermediate strain amplitude, 87

Fatigue

cyclic response and dislocation structures of AISI 316L stainless steel. Part 1: single crystals fatigued at intermediate strain amplitude, 65

cyclic response and dislocation structures of AISI 316L stainless steel. Part 2: polycrystals fatigued at intermediate strain amplitude, 87

fatigue crack growth and deformation in weldments of aluminium alloys, 45

microstructural development during tatigue of copper faoils $20-100 \mu m$ thick, 135

Ferrite

reversibility of the allotriomorphic ferrite and austenite transformations, 157

Fracture

fracture mode transition in response to processing technique, heat treatment and stress state for a rapidly solidified Al scrap alloy, 129

Friction

mechanism of the bamboo boundary internal friction peak, 1

Glass

determination of the static and dynamic mechanical properties of Fe-Cr-Si-B metallic glass wire, 143

Hydrogen

hydrogen effects on slip character and ductility in NiCo alloys, 113

Intermetallics

modelling of grain rotations during compression deformation of polycrystalline intermetallic L1₂ compounds, L1

Iron

determination of the static and dynamic mechanical properties of Fe-Cr-Si-B metallic glass wire, 143

mechanical properties and microstructure of Al-Fe-X alloys, 55

structures and mechanical properties of rapidly solidified deposits of an Fe-1.50wt.%C-10.7wt.%Cr alloy by low pressure plasma spraying, 105

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Mechanical behaviour

the rate-dependent mechanical behavior of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 15

Mechanical properties

mechanical properties and microstructure of Al-Fe-X alloys, 55

Molybdenum

the isotopic viscoplasticity theory based on overstress applied to the modeling of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 23

the rate-dependent mechanical behavior of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 15

Nickel

hydrogen effects on slip character and ductility in Ni-Co alloys, 113

tracer diffusion of carbon in Fe-Ni-Cr-C alloys, 171

Niobiun

cyclic plastic strain energy as a damage criterion and environmental effect in Nb-bearing high strength, low alloy steel, 121

Nitrogen

effects of humidity and sliding speed on the wear properties of Si₃N₄ ceramics, 185

on the question of nitrate formation by N-containing austenitic stainless steels, 163

Plasma spraying

structures and mechanical properties of rapidly solidified deposits of an Fe-1.50wt.%C-10.7wt.%Cr alloy by low pressure plasma spraying, 105

Plasticity

cyclic plastic strain energy as a damage criterion and environmental effect in Nb-bearing high strength, low alloy steel, Rapid solidification

fracture mode transition in response to processing technique, heat treatment and stress state for a rapidly solidified Al scrap alloy, 129

structures and mechanical properties of rapidly solidified deposits of an Fe-1.50wt,%C-10.7wt,%Cr alloy by low pressure plasma spraying, 105

Richardson's equation

a measure theoretic derivation of Richardson's equation, L5

Silicon

determination of the static and dynamic mechanical properties of Fe-Cr-Si-B metallic glass wire, 143

effects of humidity and sliding speed on the wear properties of Si₃N₄ ceramics, 185

Sliding

effects of humidity and sliding speed on the wear properties of Si₃N₄ ceramics, 185

Steel

cyclic plastic strain energy as a damage criterion and environmental effect in Nb-bearing high strength, low alloy steel, 121

cyclic response and dislocation structures of AISI 316L stainless steel. Part 1: single crystals fatigued at intermediate strain amplitude, 65

cyclic response and dislocation structures of AISI 316L stainless steel. Part 2: polycrystals fatigued at intermediate strain amplitude, 87

on the question of nitrate formation by N-containing austenitic stainless steels, 163

the isotopic visoplasticity theory based on overstress applied to the modeling of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 23

the rate-dependent mechanical behavior of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 15

Strain

cyclic plastic strain energy as a damage criterion and environmental effect in Nb-bearing high strength, low alloy steel, 121

cyclic response and dislocation structures of AISI 316L stainless steel. Part 1: single crystals fatigued at intermediate strain amplitude, 65

cyclic response and dislocation structures of AISI 316L stainless steel. Part 2: polycrystals fatigued at intermediate strain amplitude, 87

Stress

fracture mode transition in response to processing technique, heat treatment and stress state for a rapidly solidified Al scrap alloy, 129

the isotopic viscoplasticity theory based on overstress applied to the modeling of modified 9wt.%Cr-1wt.%Mo steel at 538 °C, 23

Texture

crystallographic texture gradients in the aluminum 8090 matrix alloy and 8090 particulate composites, 35

Titanium

determination of the kinetics of TiAl formation from fine Ti and Al particles using differential scanning calorimetry, 151

Wear

effects of humidity and sliding speed on the wear properties of Si_3N_4 ceramics, 185

